

Unit 1: Measurement

Practice Problems

Conversions:

1. Convert 53 millimeters to meters
2. Convert 22 kilograms to grams
3. Convert 19 liters to milliliters
4. Convert 32 centimeters to meters
5. Convert 98 millimeters to meters

6. Convert 67 inches to centimeters

7. Convert 15 kilometers to miles

8. Convert 88 pounds to kilograms

9. Convert 19 gallons to liters

10. Convert 88 degrees Fahrenheit to degrees Celsius

Significant Digits:

1. 17×12.88

2. 13.22×9.87

3. $19.2 / 2.3$

4. $12.33 + 9.8 + 8.887$

5. $18.33 + 13$

Scientific Notation:

1. $160000 =$ _____

2. $0.000098 =$ _____

3. $129000000 =$ _____

4. $6.5 \times 10^6 =$ _____

5. $4.44 \times 10^{-6} =$ _____

Density:

1. The mass of a metal block is 355.5 grams. The dimensions are as follows: Length is 4.2 cm, width is 5.3 cm, and height is 6.8 cm. What is the density of this metal block?

2. The mass of a rock is 48 grams. Using water displacement, the volume rises from 25.6 mL to 55.8 mL. What is the density of the rock?

3. You have a regularly shaped object with the following dimensions: 15.2 cm length, 1.2 cm width, and 2.3 cm height. The mass of this object is 40.2 grams. What is the density of this object? Will it float or sink in water?

